2018-19 NC Check-In 2 Grade 8 Mathematics State Item Statistics

		Content Standard	Item #	Depth of Knowledge	Percent Correct by Item
Expressions and Equations	8.EE.8	 Analyze and solve a system of two linear equations in two variables in slope-intercept form. Understand that solutions to a system of two linear equations correspond to the points of intersection of their graphs because the point of intersection satisfies both equations simultaneously. Solve real-world and mathematical problems leading to systems of linear equations by graphing the equations. Solve simple cases by inspection. 	12^ 14^	Skill/Concept Skill/Concept	
			16^	Skill/Concept	35.4
			18^	Recall	49.9
			20^	Recall	38.2
			24^	Skill/Concept	33.4
Functions	8.F.1	 Understand that a function is a rule that assigns to each input exactly one output. Recognize functions when graphed as the set of ordered pairs consisting of an input and exactly one corresponding output. Recognize functions given a table of values or a set of ordered pairs. 	3	Recall	21.7
			13^	Recall	36.3
			19^	Skill/Concept	50.7
			22^	Skill/Concept	63.8
			23^	Skill/Concept	59.7
			25^	Skill/Concept	46.6
	8.F.3	Identify linear functions from tables, equations, and graphs.	1	Recall	36.2
			2	Recall	52.6
			4	Recall	62.9
				Skill/Concept	48.9
				Skill/Concept	54.1
			21^	Recall	36.1
	8.F.4	Analyze functions that model linear relationships.	6*	Recall	29.0
		 Understand that a linear relationship can be generalized by y = mx + b. Write an equation in slope-intercept form to model a linear relationship by determining the rate of change and the initial value, given at least two (x, y) values or a graph. Construct a graph of a linear relationship given an equation in slope-intercept form. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of the slope and y-intercept of its graph or a table of values. 	7*	Skill/Concept	43.8
			8*	Skill/Concept	30.9
			9*^	Skill/Concept	20.4
			10*^	Recall	21.7
			11*^	Skill/Concept	14.6
			17^	Recall	42.5

^{*} Items marked with an asterisk (*) are gridded response items.

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state.

Each math Grade 8 NC Check-In assesses different content standards.

[^] Students had access to a calculator when completing items marked with a ^.